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	SUBJECT :	Proposal to Contract for a "Chip" Implementation	
		Investigation with the	25 25
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	of making greater of various forms for a number of inches on the sichips may conside essentially	the efficiency and effectiveness of our exploitation ong other things, we have been examining the possibility or use in the readout process of "chips," i.e., cut film its. Chips have been used at AFKC in limited quantities years. They are usually small pieces of film (a few lie) which have been cut from roll film; in some cases at of a total frame. Currently, chipping of roll film a manual operation. The chips are cut by hand from a new usually are stored in small individual files held by	
(1	activities. Assort of making greaters for a number of inches on the sichips may conside essentially work copy and to the photographic for a colve adaption of receive adaptication of making meters which making the basis of making meters which making the basis of making the contact formats; the basis of making the contact the basis of making the contact formats; the basis of making the contact formats; the basis of making the contact the contac	ong other things, we have been examining the possibility or use in the readout process of "chips," i.e., cut film its. Chips have been used at RFK in limited quantities years. They are usually small pieces of film (a few ide) which have been cut from roll film; in some cases at of a total frame. Currently, chipping of roll film a manual operation. The chips are cut by hand from a manually are stored in small individual files held by interpreter. Thomse investigations, thus far, have led us to estimate will not require the provision of chips from the film	2

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SUBJECT: Proposal to Contract for a "Chip" Implementation Investigation

Our proposed chip implementation investigation is directed toward answering the above questions and providing various cost and technical performance "tradeoffs" related to the alternative automated approaches.

- 4. In addition to the Center's own potential need or desire to utilize chips on a wider basis, our responsibility for providing photographic reproduction services and advanced technology to certain other members of the Mational Tasking Plan also argues that we should undertake research in chips at this time. Recently we were informed through COMIREX channels that neither of the film processing plants will be able to provide chips to the community and that requirements for such will have to be satisfied by the exploiters themselves. IAS, for one, has already indicated that it would prefer to have chips rather than multiple copies of roll film. The results of our chip implementation investigation would be made available to other members of the community through the R & D subcommittee of COMIREX.
- 5. The proposed effort will provide the Center with a study which will set forth all the technical parameters for the implementation of an operational chip system. It will provide the required technological base and define needed equipment developments as a function of various operational contingency plans, together with the "trade-off" analysis previously mentioned. Much thought has been given by the Center to different philosophies of chip implementation. This background information will be used as a data base by the contractor. The Center will then channel and guide the contractor's investigation by defining the possible contingencies and specifically state chip requirements. This will be the responsibility of a joint MFIC task teem discussed under task I below. In order to provide the essential data to MFIC in an orderly and efficient menner, the planned program encompasses a two-phased program-a study phase and a system design phase.

PHASE I

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Task 1. Operational Familiarization—The contractor has TAH and SI clearances, but he is not intimately familiar with the Center. He will be briefed on MPIC and made familiar with the Center's operations through the media of existing data and reports and through meetings with, and queries of, management in such a manner as to disrupt the operational components as little as possible.

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At the end of Task 1, there is a "Milestone" where a task team composed of IEG, IAS, PGG, and TSSC/DED personnel will review the contractor's understanding of Center operations and provide him with direction and guidance in terms of chip requirements, operational data, chip format parameters. Center policies and procedures. along with generalized direction governing the contractor's investigations. This review will also permit the contractor to present those questions which must be answered in order to perform a meaningful study.

- Task 2. Equipment Survey and Evaluation -- The contractor vill review all applicable existing and proposed chip systems; he will combine this information with his own knowledge in order to predict the technical state-of-the-art and then perform necessary testing and evaluation of significant limiting elements of the systems being considered.
- Development of Weighting Factors -- The contractor, Tesk 3. in conjunction with NFTC personnel, will relate equipment considerations to operational factors to determine a system of relevant weighting factors for use in analyzing practical alternatives and for use in recommending options.
- Task 4. Documentation and Recommendations -- This task will provide a report containing information on three or four alternative system approaches, setting forth the technical risks involved in each, the complexity and trade-offs inherent in the various options, and showing the advantages and/or dismiventages of each system.

At the end of Phase I. a team of MPIC personnel will review the alternate system approaches presented and choose one or two of the most promising for detailed analysis under Phase II.

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PHASE II

Thek 5. This test consists of a final technical report containing detailed technical and most breakdown covering the chosen alternatives. Detailed equipment openifications and over-all accidentation plans will be provided.

This research program should provide the Cambor with sofficient technical and cost data to permit logical planning and decisions rejected the judicious relection of a viable contingency plan for an ejeculiational chip system in the event it becomes necessary to implement such a special. The program will require it menths to complete of which Phane I ami Phane II will be seven and three menths, respectively. Also included is a month decision period between phases.

- 6. Proposals were requested from a total of six companies having the proper technical copability and the necessary system elements. The five responses were evaluated by a technical team compassed of four bevelopment & Engineering Division provident.

 proposal was chosen because of the company's demonstrated knowledge of contemporary this systems and upon its superior technical approach. Gost factors were also considered, with special emphasis placed on a favorable ratio of contractor and hours expended, per NFIC dollar investor.
- T. Upon successful completion of the contract, 2016 will be provided with one or more detailed decign plans along with the equipment specifications reconsery to implement an afficient operational chip system. If EPIC decides to implement one of these continguary plans, recentch and development of the easential component equipment would naturally follow with projected costs, over a saveral-good service, ranging from accordance with a cost and time cotimate would also vary as a function of the pending near Real-Time System requirements times the research performed in this project is applicable to the enjected south-timed procedures of this system. Defore leanching an equipment development procedures of this system. Defore leanching an equipment development procedures an time Center in order to gain the greatest benefit from any outenated chip progress we may choose to implement.

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